Definition of Industry Sectors Used in the Survey

	INDUSTRY	
SIC	NAME	MAJOR SUB GROUPS (at 2 Digit SIC)
01	Agriculture-Food	AGRICULTURAL PRODUCTION CROPS
02	Agriculture-Food	AGRICULTURAL PRODUCTION LIVESTOCK
07	Agriculture-Food	AGRICULTURAL SERVICES
08	Agriculture-Food	FORESTRY
09	Agriculture-Food	FISHING, HUNTING, AND TRAPPING
20	Agriculture-Food	FOOD AND KINDRED PRODUCTS
10	Construction	METAL MINING
12	Construction	COAL MINING
13	Construction	OIL AND GAS EXTRACTION
14	Construction	NONMETALLIC MINERALS, EXCEPT FUELS
16	Construction	HEAVY CONSTRUCTION, EX. BUILDING
17	Construction	SPECIAL TRADE CONTRACTORS
28	High-Tech	CHEMICALS AND ALLIED PRODUCTS
35	High-Tech	INDUSTRIAL MACHINERY AND EQUIPMENT
	C	ELECTRONIC AND OTHER ELECTRIC
36	High-Tech	EQUIPMENT
38	High-Tech	INSTRUMENTS AND RELATED PRODUCTS
48	High-Tech	COMMUNICATION
73	High-Tech	BUSINESS SERVICES
29	Manufacturing	PETROLEUM AND COAL PRODUCTS
30	Manufacturing	RUBBER AND MISC PLASTICS PRODUCTS
31	Manufacturing	LEATHER AND LEATHER PRODUCTS
32	Manufacturing	STONE, CLAY, AND GLASS PRODUCTS
33	Manufacturing	PRIMARY METAL INDUSTRIES
34	Manufacturing	FABRICATED METAL PRODUCTS
37	Manufacturing	TRANSPORTATION EQUIPMENT
		MISCELLANEOUS MANUFACTURING
39	Manufacturing	INDUSTRIES
41	Other	LOCAL AND INTERURBAN PASSENGER
41 42	Other	TRANSIT TRUCKING AND WAREHOUSING
42 44	Other	TRUCKING AND WAREHOUSING WATER TRANSPORTATION
45	Other	TRANSPORTATION TRANSPORTATION BY AIR
43 46	Other	PIPELINES, EXCEPT NATURAL GAS
40 47	Other	TRANSPORTATION SERVICES
49	Other	ELECTRIC, GAS, AND SANITARY SERVICES
60	Other	DEPOSITORY INSTITUTIONS
61	Other	NONDEPOSITORY INSTITUTIONS
62	Other	SECURITY AND COMMODITY BROKERS
63	Other	INSURANCE CARRIERS
64	Other	INSURANCE CARRIERS INSURANCE AGENTS, BROKERS, AND SERVICE
65	Other	REAL ESTATE
67	Other	HOLDING AND OTHER INVESTMENT OFFICES
70	Services	HOTELS AND OTHER LODGING PLACES
72	Services	PERSONAL SERVICES
73	Services	BUSINESS SERVICES
75 75	Services	AUTO REPAIR SERVICES AND PARKING
76	Services	MISCELLANEOUS REPAIR SERVICES
78	Services	MOTION PICTURES
79	Services	AMUSEMENT AND RECREATION SERVICES
80	Services	HEALTH SERVICES
81	Services	LEGAL SERVICES
01	201 11000	LL O. IL OLIC TOLO

82	Services	EDUCATIONAL SERVICES
83	Services	SOCIAL SERVICES
		MUSEUMS, BOTANICAL, ZOOLOGICAL
84	Services	GARDENS
86	Services	MEMBERSHIP ORGANIZATIONS
87	Services	ENGINEERING AND MANAGEMENT SERVICES
89	Services	SERVICES, NEC
50	Trade	WHOLESALE TRADE DURABLE GOODS
51	Trade	WHOLESALE TRADE NONDURABLE GOODS
52	Trade	BUILDING MATERIALS AND GARDEN SUPPLIES
53	Trade	GENERAL MERCHANDISE STORES
54	Trade	FOOD STORES
55	Trade	AUTO DEALERS AND SERVICE STATIONS
56	Trade	APPAREL AND ACCESSORY STORES
57	Trade	FURNITURE AND HOMEFURNISHING STORES
58	Trade	EATING AND DRINKING PLACES
59	Trade	MISCELLANEOUS RETAIL

Note: Boeing was grouped in Manufacturing rather than Hi-tech.

Question 1. Percent of Firms That Hired New Employees in the Last 12 Months (All Firms)

INDUSTRIES		ers Hired e Last 12	Employers Looking to Hire Someone Last 12 months		
Ag-Food	59%	3,412	61%	3,544	
Construction	55%	8,619	62%	9,581	
High-Tech	52%	1,812	70%	2,447	
Manufacturing	63%	4,265	64%	4,373	
Services	49%	44,458	51%	45,565	
Trade	77%	45,402	79% 46,346		
F.I.R.E. Trans. Wrhs. Utl. Gov.	68%	22,522	69%	22,616	
All Industries	61%	130,490	63%	134,472	

Question 3: In the last 12 months, did your firm/organization have any difficulty finding qualified applicants for any of the jobs you were trying to fill?

INDUSTRIES	Percentage Among Employers Attempting to Hire	Number of Employers with Difficulty	Percentage Among all Employers	Total Number of Employers
Ag-Food	67%	2,384	41%	5,779
Construction	71%	6,747	44%	15,438
High-Tech	56%	1,379	39%	3,513
Manufacturing	55%	2,397	35%	6,807
Services	53%	23,991	27%	89,962
Trade	42%	19,495	33%	58,978
F.I.R.E. Trans. Wrhs. Utl. Gov.	56%	12,632	38%	32,998
All Industries	51%	69,025	32%	213,475

Question 4: How did your firm/organization respond to the difficulty finding qualified applicants?

INDUSTRIES	EMPLOYERS	Did not fill the opening	Hired a less qualified	Outsourced the work / service	Increased overtime for employees	Increased recruiting efforts	Increased wages to attract applicants
Ag-Food	AMONG EMPLOYERS WITH DIFFICULTY	38%	67%	12%	60%	58%	26%
g	AMONG ALL EMPLOYERS	14%	24%	4%	22%	21%	9%
Construction	AMONG EMPLOYERS WITH DIFFICULTY	52%	86%	28%	54%	59%	54%
	AMONG ALL EMPLOYERS	12%	18%	6%	14%	15%	8%
High-Tech	AMONG EMPLOYERS WITH DIFFICULTY	46%	55%	44%	56%	59%	38%
8	AMONG ALL EMPLOYERS	8%	10%	8%	10%	10%	7%
Manufacturing	AMONG EMPLOYERS WITH DIFFICULTY	31%	57%	22%	65%	50%	20%
g	AMONG ALL EMPLOYERS	8%	15%	6%	17%	13%	5%
Services	AMONG EMPLOYERS WITH DIFFICULTY	31%	59%	17%	46%	43%	24%
	AMONG ALL EMPLOYERS	8%	15%	4%	12%	11%	6%
Trade	AMONG EMPLOYERS WITH DIFFICULTY	44%	50%	15%	46%	48%	24%
	AMONG ALL EMPLOYERS	13%	15%	4%	13%	14%	7%
F.I.R.E. Trans. Wrhs.	AMONG EMPLOYERS WITH DIFFICULTY	47%	74%	31%	51%	71%	33%
Utl. Gov.	AMONG ALL EMPLOYERS	16%	25%	10%	17%	24%	11%
All Industries	AMONG EMPLOYERS WITH DIFFICULTY	40%	62%	20%	48%	52%	28%
	AMONG ALL EMPLOYERS	12%	18%	6%	14%	15%	8%

Question 6i. Percent Having Difficulty Finding Applicants With PhD/Professional Degree

	AMONG ALL EMPLOYERS			
INDUSTRY	Had Difficulty	No Difficulty		
Ag-Food	2%	3%		
Construction	1%	0%		
High-Tech	3%	0%		
Manufacturing	1%	0%		
Services	2%	0%		
Trade	1%	0%		
F.I.R.E. Trans. Wrhs. Utl. Gov.	4%	0%		
All Industries	2%	0%		

Question 7: How much difficulty has your firm/organization had finding employees with the following skills?

Question 7a. Percent Having Difficulty Finding Applicants With Sufficient Reading Skills						
INDUCTON	AMONG ALL EMPLOYERS					
INDUSTRY	Had Difficulty	No Difficulty				
Ag-Food	14%	13%				
Construction	7%	24%				
High-Tech	6%	9%				
Manufacturing	6%	11%				
Services	6%	13%				
Trade	3%	22%				
F.I.R.E. Trans. Wrhs. Utl. Gov.	14%	16%				
All Industries	7%	17%				

	Question 7b. Percent Having Difficulty Finding Applicants With Sufficient Writing Skills						
AMONG ALL							
EMPLOYERS							
INDUSTRY Had No							
Difficulty Difficulty							
Ag-Food 17% 9%							
Construction 8% 17%							
High-Tech 10% 4%							
Manufacturing 8% 7%							
Services 9% 9%							
Trade 14% 10%							
F.I.R.E. Trans. Wrhs. Utl. Gov.							
All Industries 12% 10%							
Question 7c. Percent Having Difficulty Finding Applicants With Sufficient Math Skills							
With Sufficient Math Skills	Applicants						
	Applicants						
With Sufficient Math Skills AMONG ALL EMPLOYERS	Applicants						
With Sufficient Math Skills AMONG ALL	Applicants						
With Sufficient Math Skills AMONG ALL EMPLOYERS	Applicants						
INDUSTRY AMONG ALL EMPLOYERS Had No	Applicants						
INDUSTRY AMONG ALL EMPLOYERS Had Difficulty Difficulty	Applicants						
INDUSTRY AMONG ALL EMPLOYERS Had Difficulty Difficulty Ag-Food Difficulty The property of the property o	Applicants						
With Sufficient Math Skills AMONG ALL EMPLOYERS Had Difficulty Ag-Food Construction No Difficulty 7% 15% 19%	Applicants						
With Sufficient Math Skills AMONG ALL EMPLOYERS Had Difficulty Ag-Food Construction High-Tech AMONG ALL EMPLOYERS 100 100 100 100 100 100 100 100 100 1	Applicants						
With Sufficient Math SkillsAMONG ALL EMPLOYERSHad No DifficultyAg-Food20%7%Construction15%19%High-Tech7%6%Manufacturing12%6%	Applicants						
With Sufficient Math Skills AMONG ALL EMPLOYERS Had No Difficulty Ag-Food 20% 7% Construction 15% 19% High-Tech 7% 6% Manufacturing 12% 6% Services 11% 8%	Applicants						

Question 7d. Percent Having Difficulty Finding Applicants With Sufficient Job-Specific Skills						
	AMONG ALI	ı				
	EMPLOYERS	5				
INDUSTRY	Had	No				
	Difficulty	Difficulty				
Ag-Food	29%	1%				
Construction	33%	2%				
High-Tech	15%	1%				
Manufacturing	19%	1%				
Services	17%	3%				
Trade	23%	2%				
F.I.R.E. Trans. Wrhs. Utl. Gov.	29%	2%				
All Industries	22%	2%				
Question 7e. Per Applicants With			g			
	AMONG ALI	_				
AND MORDAY	EMPLOYERS					
INDUSTRY	Had	No				
	Difficulty	Difficulty				
Ag-Food	16%	4%				
Construction	11%	7%				
High-Tech	11%	4%				
Manufacturing	6%	6%				
Services	10%	3%				
Trade	12%	9%				
F.I.R.E. Trans. Wrhs. Utl. Gov.	20%	7%				
All Industries	12%	6%				

Question 7f. Percent Having Difficulty Finding
Applicants With Sufficient Team Work Skills

rppheanes with	Bullielent Tea	m work skins		
INDUSTRY	AMONG ALL EMPLOYERS			
	Had Difficulty	No Difficulty		
Ag-Food	22%	6%		
Construction	20%	9%		
High-Tech	11%	4%		
Manufacturing	10%	7%		
Services	17%	3%		
Trade	19%	6%		
F.I.R.E. Trans. Wrhs. Utl. Gov.	21%	8%		
All Industries	18%	5%		

Question 7g. Percent Having Difficulty Finding Applicants With Sufficient Problem-Solving Skills

INDUSTRY	AMONG ALL EMPLOYERS		
INDUSTRI	Had Difficulty	No Difficulty	
Ag-Food	28%	2%	
Construction	26%	9%	
High-Tech	13%	3%	
Manufacturing	14%	3%	
Services	18%	4%	
Trade	21%	4%	
F.I.R.E. Trans. Wrhs. Utl. Gov.	23%	5%	
All Industries	20%	4%	

Question 7h. Percent Having Difficulty Finding Applicants With Sufficient Communication Skills

INDUSTRY	AMONG ALL EMPLOYERS		
INDUSTRY	Had Difficulty	No Difficulty	
Ag-Food	27%	3%	
Construction	24%	11%	
High-Tech	13%	1%	
Manufacturing	14%	3%	
Services	19%	3%	
Trade	16%	9%	
F.I.R.E. Trans. Wrhs. Utl. Gov.	23%	6%	
All Industries	19%	6%	

Question 7i. Percent Having Difficulty Finding Applicants With Good Work Habits

INDUSTRY	AMONG ALL EMPLOYERS			
INDUSTRY	Had Difficulty	No Difficulty		
Ag-Food	29%	3%		
Construction	32%	3%		
High-Tech	12%	3%		l
Manufacturing	16%	4%		I
Services	16%	4%		I
Trade	23%	2%		1
F.I.R.E. Trans. Wrhs. Utl. Gov.	18%	12%		
All Industries	20%	5%		1
				1

Supervision	AMONG ALI			
INDICTOX	EMPLOYERS			
INDUSTRY	Had	No		
	Difficulty	Difficulty		
Ag-Food	28%	3%		
Construction	21%	13%		
High-Tech	9%	7%		
Manufacturing	12%	8%		
Services	14%	7%		
Trade	15%	11%		
F.I.R.E. Trans. Wrhs. Utl. Gov.	15%	14%		
All Industries	15%	10%		
Question 7k. Per Applicants With Changes	Sufficient Abi	llity to Adapt to		
Changes		dity to Adapt to		
Applicants With Changes	Sufficient Abi AMONG ALI	dity to Adapt to		
Applicants With Changes	AMONG ALI EMPLOYERS Had	lity to Adapt to		
Applicants With Changes INDUSTRY	AMONG ALL EMPLOYERS Had Difficulty 25% 18%	No Difficulty		
Applicants With Changes INDUSTRY Ag-Food Construction	AMONG ALL EMPLOYERS Had Difficulty 25% 18% 11%	No Difficulty 6%		
Applicants With Changes INDUSTRY Ag-Food Construction High-Tech	AMONG ALL EMPLOYERS Had Difficulty 25% 18% 11% 10%	No Difficulty 6% 16% 4% 9%		
Applicants With Changes INDUSTRY Ag-Food Construction High-Tech	AMONG ALL EMPLOYERS Had Difficulty 25% 18% 11% 10% 15%	No Difficulty 6% 16% 4% 9% 5%		
Applicants With Changes INDUSTRY Ag-Food Construction High-Tech Manufacturing	AMONG ALL EMPLOYERS Had Difficulty 25% 18% 11% 10% 15%	No Difficulty 6% 16% 4% 9% 5%		
Applicants With Changes INDUSTRY Ag-Food Construction High-Tech Manufacturing Services Trade F.I.R.E. Trans. Wrhs. Utl. Gov.	AMONG ALL EMPLOYERS Had Difficulty 25% 18% 11% 10% 15% 21%	No Difficulty 6% 16% 4% 9% 5% 9% 9%		
Applicants With Changes INDUSTRY Ag-Food Construction High-Tech Manufacturing Services Trade F.I.R.E. Trans.	AMONG ALL EMPLOYERS Had Difficulty 25% 18% 11% 10% 15%	No Difficulty 6% 16% 4% 9% 5%		

INDUSTRY	AMONG ALL EMPLOYERS			
INDUSTRY	Had Difficulty	No Difficulty		
Ag-Food	12%	7%		
Construction	3%	12%		
High-Tech	4%	3%		
Manufacturing	8%	3%		
Services	2%	7%		
Trade	3%	14%		
F.I.R.E. Trans. Wrhs. Utl. Gov.	14%	6%		
All Industries	5%	9%		

Question 8: Which of the following has resulted from your firm's difficulty in finding qualified applicants?

Question 8a. Lowered overall

productivity

INDUSTRY	Number of Employers	Percentage of Employers Among Those With Difficulty	Percentage Among All Employers
Ag-Food	1517	73%	26%
Construction	4795	82%	30%
High-Tech	388	63%	11%
Manufacturing	1001	56%	15%
Services	9485	41%	11%
Trade	12151	72%	21%
F.I.R.E. Trans. Wrhs. Utl. Gov.	5562	50%	17%
All Industries	34899	57%	16%

Question 8b. Reduced product or service quality

Question ob. Reduced product of service quanty					
INDUSTRY	Number of Employers	Percentage of Employers Among Those With Difficulty	Percentage Among All Employers		
Ag-Food	1172	57%	20%		
Construction	3190	55%	20%		
High-Tech	289	47%	9%		
Manufacturing	429	24%	6%		
Services	12973	56%	14%		
Trade	8678	51%	15%		
F.I.R.E. Trans. Wrhs. Utl. Gov.	4250	38%	13%		
All Industries	30981	50%	14%		

Question 8c. Reduced production output or sales

INDUSTRY	Number of Employers	Percentage of Employers Among Those With Difficulty	Percentage Among All Employers
Ag-Food	1392	67%	24%
High-Tech	431	70%	13%
Manufacturing	1052	59%	15%
Services	12759	55%	14%
Trade	10058	59%	17%
F.I.R.E. Trans. Wrhs. Utl. Gov.	5790	52%	18%
All Industries	35281	57%	17%

Question 8d. Prevented firm from expanding its facilities

INDUSTRY	Number of Employers	Percentage of Employers Among Those With Difficulty	Percentage Among All Employers
Ag-Food	826	40%	14%
Construction	2726	47%	17%
High-Tech	319	52%	9%
Manufacturing	277	15%	4%
Services	6301	27%	7%
Trade	2338	14%	4%
F.I.R.E. Trans. Wrhs. Utl. Gov.	4156	37%	13%
All Industries	16943	27%	8%

Question 8e. Prevented firm from developing new products/services

products/services			1
INDUSTRY	Number of Employers	Percentage of Employers Among Those With Difficulty	Percentage Among All Employers
Ag-Food	766	37%	13%
Construction	1169	20%	7%
High-Tech	323	53%	10%
Manufacturing	310	17%	5%
Services	5417	23%	6%
Trade	1485	9%	3%
F.I.R.E. Trans. Wrhs. Utl. Gov.	3223	29%	10%
All Industries	12693	21%	6%

Question 8f. Caused firm to move some operations out of

Washington

INDUSTRY	Number of Employers	Percentage of Employers Among Those With Difficulty	Percentage Among All Employers
Ag-Food	15	1%	0%
Construction	88	2%	1%
High-Tech	169	28%	5%
Manufacturing	75	4%	1%
Services	160	1%	0%
Trade	78	0%	0%
F.I.R.E. Trans. Wrhs. Utl. Gov.	3	0%	0%
All Industries	588	1%	0%

Question 9a. Speaks so others can understand

	AMONG ALL EMPLOYERS			
INDUSTRIES	Had Difficulty	No Difficulty	Not Applicable	
Ag-Food	16%	14%	6%	
Construction	11%	21%	5%	
High-Tech	5%	7%	6%	
Manufacturing	6%	13%	8%	
Services	9%	14%	3%	
Trade	2%	17%	10%	
F.I.R.E. Trans. Wrhs. Utl. Gov.	7%	23%	4%	
All Industries	7%	17%	6%	

Question 9b. Listen actively

	AMONG A	AMONG ALL EMPLOYERS			
INDUSTRIES	Had Difficulty	No Difficulty	Not Applicable		
Ag-Food	23%	7%	6%		
Construction	16%	16%	5%		
High-Tech	7%	5%	5%		
Manufacturing	13%	6%	8%		
Services	10%	10%	5%		
Trade	11%	8%	9%		
F.I.R.E. Trans. Wrhs. Utl. Gov.	18%	11%	4%		
All Industries	13%	10%	6%		

Question 9c. Read with understanding

	AMONG ALL EMPLOYERS					
INDUSTRIES	Had Difficulty	No Difficulty	Not Applicable			
Ag-Food	17%	9%	10%			
Construction	13%	18%	7%			
High-Tech	7%	5%	5%			
Manufacturing	8%	7%	12%			
Services	12%	11%	3%			
Trade	5%	15%	9%			
F.I.R.E. Trans. Wrhs. Utl. Gov.	11%	19%	4%			
All Industries	10%	14%	6%			

Question 9d. Observe critically

	AMONG ALL EMPLOYERS						
INDUSTRIES	Had Difficulty	No Difficulty	Not Applicable				
Ag-Food	16%	10%	10%				
Construction	12%	15%	10%				
High-Tech	8%	4%	5%				
Manufacturing	10%	6%	10%				
Services	15%	7%	4%				
Trade	13%	7%	9%				
F.I.R.E. Trans. Wrhs. Utl. Gov.	12%	17%	5%				
All Industries	13%	9%	6%				

Question 9e. Cooperate with others

	AMONG ALL EMPLOYE					
INDUSTRIES	Had Difficulty	No Difficulty	Not Applicable			
Ag-Food	21%	10%	5%			
Construction	14%	19%	4%			
High-Tech	6%	6%	5%			
Manufacturing	10%	9%	8%			
Services	9%	12%	5%			
Trade	12%	8%	9%			
F.I.R.E. Trans. Wrhs. Utl. Gov.	16%	14%	4%			
All Industries	12%	11%	6%			

Question 9f. Resolve conflict and negotiate

		AMONG ALL EMPLOYERS					
INDUSTRIES	Had Difficulty	No Difficulty	Not Applicable				
Ag-Food	20%	7%	9%				
Construction	16%	11%	10%				
High-Tech	6%	6%	6%				
Manufacturing	8%	5%	13%				
Services	11%	9%	6%				
Trade	12%	6%	10%				
F.I.R.E. Trans. Wrhs. Utl. Gov.	16%	12%	6%				
All Industries	13%	8%	8%				

Question 9g. Use math to solve problems and communicate

	AMONG ALL EMPLOYERS					
INDUSTRIES	Had Difficulty	No Difficulty	Not Applicable			
Ag-Food	16%	7%	12%			
Construction	18%	11%	8%			
High-Tech	4%	6%	8%			
Manufacturing	13%	5%	8%			
Services	12%	8%	7%			
Trade	7%	8%	14%			
F.I.R.E. Trans. Wrhs. Utl. Gov.	8%	9%	16%			
All Industries	10%	8%	10%			

Question 9h. Solve problems and make decisions

	AMONG ALL EMPLOYE					
INDUSTRIES	Had Difficulty	No Difficulty	Not Applicable			
Ag-Food	25%	3%	7%			
Construction	23%	9%	5%			
High-Tech	9%	4%	5%			
Manufacturing	14%	5%	7%			
Services	16%	4%	6%			
Trade	14%	5%	10%			
F.I.R.E. Trans. Wrhs. Utl. Gov.	20%	7%	7%			
All Industries	17%	5%	7%			

Question 9i. Take responsibility for learning

	AMONG ALL EMPLOYERS					
INDUSTRIES	Had Difficulty	No Difficulty	Not Applicable			
Ag-Food	29%	2%	5%			
Construction	20%	12%	4%			
High-Tech	9%	3%	6%			
Manufacturing	13%	4%	9%			
Services	20%	3%	3%			
Trade	14%	5%	10%			
F.I.R.E. Trans. Wrhs. Utl. Gov.	22%	8%	4%			
All Industries	18%	5%	6%			

Question 9j. Use information and communications technology

teemology	AMONG ALL EMPLOYERS						
INDUSTRIES	Had Difficulty	No Difficulty	Not Applicable				
Ag-Food	20%	5%	11%				
Construction	15%	12%	9%				
High-Tech	6%	4%	7%				
Manufacturing	7%	6%	13%				
Services	9%	11%	6%				
Trade	10%	6%	13%				
F.I.R.E. Trans. Wrhs. Utl. Gov.	12%	8%	14%				
All Industries	10%	9%	10%				

Question 10. How will your firm's need for employees with each type of education change in the next few years?

Q10a. Employees without high school /GED diploma

For All Firms	Inc	ncrease Stay Same Decrease Not Need		Stay Same Decrease Not		Decrease		Needed
Ag-Food	4%	197	3%	2,764	3%	330	2%	2,488
Construction	11%	490	7%	6,097	4%	384	8%	8,818
High-Tech	3%	132	1%	809	1%	121	2%	2,451
Manufacturing	8%	357	3%	2,236	3%	338	3%	3,876
Services	13%	568	53%	43,912	32%	3,260	36%	42,222
Trade	33%	1,446	23%	19,535	20%	2,029	31%	35,968
F.I.R.E. Trans. Wrhs. Utl. Gov.	27%	1,197	9%	7,900	37%	3,839	17%	20,062
All Industries	2%	4,387	39%	83,253	5%	10,301	54%	115,885

Question 10b. Employees With High School/GED Diploma

For All Firms	Inc	Increase		y Same	Decrease		Decrease		Not	Needed
Ag-Food	12%	709	52%	3,003	3%	145	33%	1,922		
Construction	16%	2542	53%	8,376	1%	140	30%	4,731		
High-Tech	11%	374	37%	1309	19%	663	33%	1,167		
Manufacturing	18%	1233	49%	3,363	3%	177	30%	2,034		
Services	12%	10669	56%	50,383	0%	417	32%	28,493		
Trade	5%	3,170	64%	37,764	8%	4,786	22%	13,258		
F.I.R.E. Trans. Wrhs. Utl. Gov.	9%	2,928	53%	17,455	9%	2,846	30%	9,769		
All Industries	10%	21,625	57%	121,653	4%	9,174	29%	61,374		

Question 10c. Employees With Some College Coursework, no Degree

For All Firms	Increase		Stay Same		Decrease		Not	Needed
Ag-Food	2%	572	3%	2,637	1%	128	3%	2,442
Construction	8%	2845	7%	6,655	2%	143	8%	6,146
High-Tech	3%	922	2%	1972	0%	37	1%	582
Services	27%	9290	43%	42,589		•	53%	38,083
Trade	40%	13,764	28%	27,273	71%	6,051	16%	11,890
F.I.R.E. Trans. Wrhs. Utl. Gov.	18%	6,297	15%	14,365	24%	2,031	14%	10,305
All Industries	16%	34,717	46%	98,038	4%	8,562	34%	72,509

Question 10d. Employees With Vocational Certificate

For All Firms	Increase		Stay Same		Dec	rease	Not	Needed
Ag-Food	4%	1139	2%	1,444	6%	131	3%	3,065
Construction	11%	3636	6%	4,618	4%	89	8%	7,446
High-Tech	3%	1034	2%	1842	2%	32	1%	605
Manufacturing	4%	1301	2%	1,997	5%	106	4%	3,403
Services	17%	5402	38%	32,058	0%	8	54%	52,494
Trade	34%	11,038	34%	28,211	50%	1,014	19%	18,715
F.I.R.E. Trans. Wrhs. Utl. Gov.	26%	8,473	16%	13,140	32%	657	11%	10,728
All Industries	15%	32,023	39%	83,310	1%	2,037	45%	96,456

Question 10e. Employees With Vocational Associate Degree

For All Firms	Inc	Increase		Stay Same		Decrease		Not Needed	
Ag-Food	4%	867	2%	1,418	4%	85	3%	3,409	
Construction	13%	2537	6%	4,407	9%	188	7%	8,657	
High-Tech	5%	886	2%	1399	1%	32	1%	1,196	
Manufacturing	3%	621	3%	1,979	11%	239	3%	3,968	
Services	10%	1937	39%	29,858	6%	135	50%	58,032	
Trade	37%	7,099	32%	24,902	44%	977	22%	26,000	
F.I.R.E. Trans. Wrhs. Utl. Gov.	28%	5,325	17%	12,796	25%	551	12%	14,326	
All Industries	9%	19,272	36%	76,759	1%	2,207	54%	115,588	

Question 10f. Employees With Academic Associate Degree

For All Firms	Inc	rease	Sta	y Same	Dec	rease	Not	Needed
Ag-Food	2%	518	2%	1,296	16%	404	3%	3,561
Construction	9%	2119	5%	3,337	5%	135	9%	10,198
High-Tech	4%	1051	2%	1522	0%	7	1%	933
Manufacturing	2%	490	3%	2,030	12%	304	3%	3,983
Services	9%	2196	37%	26,317	22%	554	52%	60,895
Trade	52%	12,484	34%	23,692	36%	906	19%	21,896
F.I.R.E. Trans. Wrhs. Utl. Gov.	21%	5,069	17%	12,118	8%	197	13%	15,614
All Industries	11%	23,927	33%	70,312	1%	2,507	55%	117,080

Question 10g. Employees With BA/BS Degree

For All Firms	ns Increase		Stay	Stay Same		Decrease		Not Needed	
Ag-Food	2%	463	2%	1,038	4%	81	4%	4,197	
Construction	7%	2044	5%	3,301	12%	228	9%	10,216	
High-Tech	3%	988	2%	1235	1%	25	1%	1,265	
Manufacturing	1%	413	3%	1,711	20%	382	4%	4,301	
Services	27%	7912	31%	20,911	11%	218	53%	60,921	
Trade	35%	10,231	40%	26,888	26%	487	18%	21,372	
F.I.R.E. Trans. Wrhs. Utl. Gov.	25%	7,205	18%	11,770	26%	488	12%	13,535	
All Industries	14%	29,256	31%	66,854	1%	1,909	54%	115,807	

Question 10h. Employees With Master Degree

For All Firms	Increase		Stay	Stay Same		Decrease		Not Needed	
Ag-Food	1%	103	2%	965	5%	75	3%	4,636	
Construction	2%	257	6%	3,576	23%	345	8%	11,611	
High-Tech	3%	324	1%	741	2%	27	2%	2,421	
Manufacturing	2%	204	2%	965	21%	307	4%	5,331	
Services	8%	1001	39%	21,882	14%	214	46%	66,865	
Trade	34%	4,314	35%	19,171	11%	164	25%	35,329	
F.I.R.E. Trans. Wrhs. Utl. Gov.	51%	6,558	15%	8,175	24%	348	12%	17,917	
All Industries	6%	12,761	26%	55,475	1%	1,480	67%	144,110	

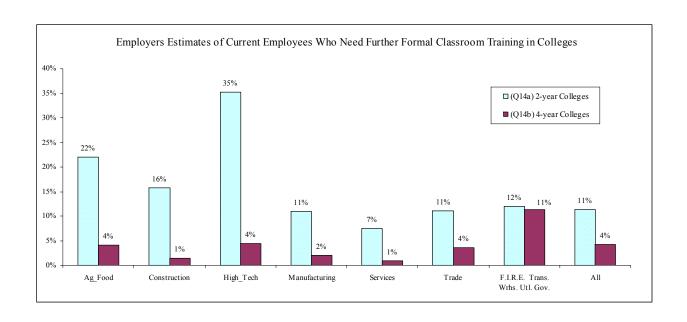
Question 10i. Employees With PhD/Professional Degree

For All Firms	Inc	rease	Stay	y Same	Dec	rease	Not	Needed
Ag-Food	13%	250	2%	702	3%	82	3%	4,745
Construction		•	7%	3,323	9%	270	8%	12,196
High-Tech	3%	61	1%	581	3%	97	2%	2,774
Manufacturing	1%	22	2%	852	11%	313	3%	5,620
Services	1%	11	34%	15,778	30%	846	45%	73,327
Trade	9%	170	39%	18,200	30%	858	24%	39,750
F.I.R.E. Trans. Wrhs. Utl. Gov.	73%	1,374	15%	7,081	14%	388	15%	24,155
All Industries	1%	1,888	22%	46,517	1%	2,854	76%	162,567

Question 11: In the last three years, have the skills required to adequately perform production or support jobs increased, decreased, or remained the same?

		Stay		Don't	
INDUSTRY	Increase	Same	Decrease	Know	
Ag-Food	33%	59%	1%	7%	
Construction	32%	54%	2%	12%	
High-Tech	54%	29%	1%	16%	
Manufacturing	29%	50%	5%	16%	
Services	18%	67%	1%	13%	
Trade	49%	38%	7%	6%	
F.I.R.E. Trans. Wrhs. Utl. Gov.	44%	46%	3%	7%	
All Industries	33%	54%	3%	10%	

	Classroom	Training, \	Workshop,	Seminar	
INDUSTRY PRACTICE IN JOB RELATED TRAININGS FOR EMPLOYEES	for Any Type of Classroom Training (Q12)	in Work- Place Practices (Q21)	for Basic Skills (Q22)	in Job Specific Skills (Q23)	for Any Employee (Q26)
Ag-Food	35%	24%	5%	32%	14%
Construction	40%	27%	2%	31%	16%
High-Tech	45%	17%	10%	44%	27%
Manufacturing	32%	21%	4%	22%	11%
Services	22%	16%	5%	20%	14%
Trade	73%	48%	15%	66%	35%
F.I.R.E. Trans. Wrhs. Utl. Gov.	57%	38%	11%	46%	28%
All Industries	44%	29%	8%	38%	22%



INDUSTRY PRACTICE IN JOB RELATED TRAININGS FOR EMPLOYEES	Classroom Seminar	Training,	Worksh	op,	Tuition Reim	On-the-Job Training	
	for any Employee (Q12)	in Work- Place Practices (Q21)	for Basic Skills (Q22)	in Job Specific Skills (Q23)	for any Employee (Q26)	Restricted to Job- Related Training Only (Q28)	was in a Written Plan or an Agreement (Q29)
Ag-Food	35%	24%	5%	32%	14%	33%	16%
Construction	40%	27%	2%	31%	16%	31%	14%
High-Tech	45%	17%	10%	44%	27%	41%	16%
Manufacturing	32%	21%	4%	22%	11%	18%	12%
Services	22%	16%	5%	20%	14%	21%	9%
Trade	73%	48%	15%	66%	35%	70%	40%
F.I.R.E. Trans. Wrhs. Utl. Gov.	57%	38%	11%	46%	28%	44%	26%
All Industries	44%	29%	8%	38%	22%	40%	20%

Question 15: In the last three years, has the percentage of your employees who received classroom training, workshops, or seminars of some kind increased, decreased, or remained the same?

INDUSTRY	Increase	Stay Same	Decrease	Don't Know	
Ag-Food	34%	55%	2%	9%	
Construction	40%	44%	1%	15%	
High-Tech	28%	67%	1%	4%	
Manufacturing	25%	62%	6%	7%	
Services	22%	67%	2%	9%	
Trade	30%	58%	5%	8%	
F.I.R.E. Trans. Wrhs. Utl.	34%	49%	8%	9%	
Gov.					
All Industries	29%	58%	4%	9%	

	Classroom	ı Training,	Workshop,	Seminar	
INDUSTRY PRACTICE IN JOB RELATED TRAININGS FOR EMPLOYEES	for any Employee (Q12)	in Work- Place Practices (Q21)	for Basic Skills (Q22)	in Job- Specific Skills (Q23)	for any Employee (Q26)
Ag-Food	35%	24%	5%	32%	14%
Construction	40%	27%	2%	31%	16%
High-Tech	45%	17%	10%	44%	27%
Manufacturing	32%	21%	4%	22%	11%
Services	22%	16%	5%	20%	14%
Trade	73%	48%	15%	66%	35%
F.I.R.E. Trans. Wrhs. Utl. Gov.	57%	38%	11%	46%	28%
All Industries	44%	29%	8%	38%	22%

Percent of Employers That Provided Various Trainings for at Least Four Hours, or Had a Tuition Reimbursement Program, or a Written Plan for on-the-Job Training, in the Last 12 Months

	Classro	om Training	•	shop,			On-the-			
INDUSTRY		Semina			Tuition R	Job Training				
PRACTICE IN		Among those firms which provided training to any								
JOB RELATED TRAININGS			employee (Q12="Yes")							
FOR	for any	in	for	in Job-	c	Restricted to	Written Plan or an			
EMPLOYEES	Employee	Workplace Practices	Basic Skills	Specific Skills	for any Employee	Job-Related Training Only	Agreement			
	(Q12)	(Q21)	(Q22)	(Q23)	(Q26)	(Q28)	(Q29)			
Ag-Food	35%	69%	13%	91%	38%	92%	45%			
Construction	40%	69%	5%	79%	41%	77%	34%			
High-Tech	45%	39%	21%	97%	59%	90%	36%			
Manufacturing	32%	66%	12%	70%	35%	56%	39%			
Services	22%	73%	22%	91%	65%	98%	40%			
Trade	73%	66%	21%	90%	48%	96%	54%			
F.I.R.E. Trans. Wrhs. Utl. Gov.	57%	68%	20%	82%	49%	77%	46%			
All Industries	44%	67%	19%	88%	50%	91%	47%			

All Employers:

INDUSTRY	Classroon	n Training, V	Workshop	, Seminar	Tuition R	eimbursement	On-the-Job
PRACTICE IN JOB RELATED TRAININGS FOR EMPLOYEES	for Any Employee (Q12)	in Work- Place Practices (Q21)	for Basic Skills (Q22)	in Job Specific Skills (Q23)	for Any Employee (Q26)	Restricted to Job-related Training Only (Q28)	Training Was in a Written Plan or an Agreement (Q29)
Ag_Food	35%	24%	5%	32%	14%	33%	16%
Construction	40%	27%	2%	31%	16%	31%	14%
High-Tech	45%	17%	10%	44%	27%	41%	16%
Manufacturing	32%	21%	4%	22%	11%	18%	12%
Services	22%	16%	5%	20%	14%	21%	9%
Trade	73%	48%	15%	66%	35%	70%	40%
F.I.R.E. Trans. Wrhs. Utl. Gov.	57%	38%	11%	46%	28%	44%	26%
All Industries	44%	29%	8%	38%	22%	40%	20%